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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/687,894	10/687,894 10/17/2003		Yasuyoshi Suzuki	4041K-000160 9787		
27572	7590	03/07/2006		EXAMINER		
HARNESS P.O. BOX 8	•	Y & PIERCE, P.L.	SHEEHAN, JOHN P			
BLOOMFIELD HILLS, MI 48303				ART UNIT	PAPER NUMBER	
				1742		

DATE MAILED: 03/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/687,894	SUZUKI ET AL.					
Office Action Summary	Examiner	Art Unit					
	John P. Sheehan	1742					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ac	ldress				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timustilly apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on							
2a) This action is FINAL . 2b) ☑ This	action is non-final.						
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the	e merits is				
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-13</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-5 and 8-11</u> is/are rejected.							
7)⊠ Claim(s) <u>6, 7, 12 and 13</u> is/are objected to.							
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10)⊠ The drawing(s) filed on 17 October 2003 is/are:	a)⊠ accepted or b)☐ objected	to by the Examin	er.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correcti	ion is required if the drawing(s) is obj	ected to. See 37 C	FR 1.121(d).				
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P	ΓΟ-152.				
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a)	o-(d) or (f).					
1. Certified copies of the priority documents	s have been received.						
<u> </u>							
3. Copies of the certified copies of the prior	ity documents have been receive	ed in this National	Stage				
application from the International Bureau	ı (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of	of the certified copies not receive	d.					
Attachment(s)	,, — , , , , ,	(DTO 443)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 10/03 06/05.	5) Notice of Informal P 6) Other:		D-152)				

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1 to 5 and 8 to 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Moro et al. (Moro, US Patent No. 5,348,800).

Moro teaches a process that is encompassed by the instant claims (column 2, line 38 to column 3, line 55).

Claim Rejections - 35 USC § 103

- 4. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

6. Claims 1 to 5 and 8 to 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yasuhiro et al. (Yasuhiro, Japanese Patent Document No. 5-36514, cited in the IDS submitted October 17, 2003) taken in view of the admitted known prior art disclosed in applicants' specification, page 2, lines 29 to 32.

Yasuhiro teaches a process that, with the exception of the sintering using a millimeter wave sintering apparatus or a discharge plasma sintering apparatus, is encompassed by the process recited in applicants' claims 1 to 3, 5,8, 9 and 11(see, the English language Abstract submitted with the IDS and applicants' specification, page 1, the second full paragraph). Yasuhiro also teaches that the soft magnetic powder has an average particle diameter of 2 to 50 microns (machine language translation, page 2, paragraph 0014) which overlaps the particle size recited in applicants' claims 4 and 10. In addition to the Fe-Si-Al alloy disclosed in Yasuhiro's Abstract, Yasuhiro teaches additional alloys that can be used in Yasuhiro's process (page 2, paragraph 0013) that are encompassed by applicants' claims 5 and 11.

The admitted known prior art disclosed on page 2, lines 29 to 32 of applicants' specification teaches that sintering using a millimeter wave sintering apparatus or a discharge plasma sintering apparatus are known.

Yasuhiro and the claimed process differ in that Yasuhiro does not teach sintering using a millimeter wave sintering apparatus or a discharge plasma sintering apparatus.

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However, one of ordinary skill in the art at the time the invention was made would have considered the invention to have been obvious because Yasuhiro's disclosure does not limit the sintering process that can be use in Yasuhiro's process, therefore Yasuhiro is considered to encompass the use of any known sintering process including sintering using a millimeter wave sintering apparatus or a discharge plasma sintering apparatus which as acknowledged by applicants' are known. On pages 4 and 5 of applicants' specification it is disclosed that sintering using a millimeter wave sintering apparatus or a discharge plasma sintering apparatus improves the properties of the soft magnetic product. However, there is no evidence to support applicants' statement. "It is well settled that unexpected results must be established by factual evidence. Mere argument or conclusory statements in the specification do not suffice." In re Deblauwe, 222 USPQ 191, 196 (Fed. Cir. 1984). Mere lawyer's arguments and conclusory statements in the specification, unsupported by objective evidence, are insufficient to establish unexpected results." In re Wood, Whittaker, Stirling and Ohta, 199 USPQ 137, 140 (CCPA 1978).

Allowable Subject Matter

- 7. Claims 6, 7, 13 and 13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 8. The following is a statement of reasons for the indication of allowable subject matter: None of the prior art references alone or in combination teach or suggest or

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motivate one of ordinary skill in the art to modify the processes recited in claims 1 and 8 by adding Cu base powder to the soft magnetic powder as recited in claims 6 and 12 nor heating the soft magnetic alloy powder in a reducing atmosphere to activate the surfaces of the soft magnetic powder before the surface oxidation step as recited in claims 7 and 13.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John P. Sheehan whose telephone number is (571) 272-1249. The examiner can normally be reached on T-F (6:45-4:30) Second Monday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner

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